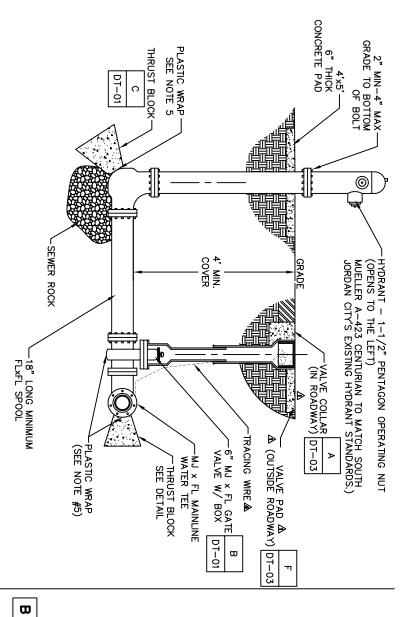
- INSPECTION: PRIOR TO BACKFILLING, SECURE INSPECTION OF INSTALLATION BY ENGINEER.

 BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL DED SDESIES ALL
- KFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
 RANT: DRY BARREL PER AWWA C502.
 RANT: DRY BARREL PER AWWA

- TO PREVENT SILTING.

 B. PAINT FIRE HYDRANT RED PER SOUTH JORDAN CITY'S REQUIREMENTS.
 C. APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH
 B mil THICK POLYETHYLENE SHEET AND TAPE WRAP.
 D. NOTIFY FIRE DEPARTMENT AS SOON AS HYDRANT IS PLACED IN SERVICE.
 4. THRUST BLOCKS: REQUIRED FOR ALL CONNECTIONS INCLUDING FLANGED OR WELDED PIPE SYSTEMS.
 5. PLASTIC WRAP: PRIOR TO POURING CONCRETE, APPLY POLY-FM GREASE AND WRAP PIPE SYSTEM AND FITTINGS WITH 8 mil THICK PLASTIC SHEET TO PREVENT BONDING OF CONCRETE TO PIPE SYSTEM AND FITTINGS.
 6. PLACE FOUR (4) PROTECTIVE BOLLARDS AROUND HYDRANT AS DIRECTED BY BY SOUTH JORDAN CITY. SEE DETAIL 'B' SHEET DT-03



-FL X FL VALVE WITH BOX

OUTSIDE ROADWAY) DT-03

TRACING WIRE ▲

mil POLY WRAP

FIRE HYDRANT WITH VALVE

➤

TYPE 'A' RESTRAINT

VALVE DETAIL N.T.S.

- 9249

- 1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTIONS OF INSTALLATION BY ENGINEER.
 2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
 3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL.
 4. PIPE JOINTS: DO NOT COVER WITH CONCRETE. LEAVE COMPLETELY ACCESSIBLE.
 5. GREASE: APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
 6. SPECIAL CONSTRUCTION REQUIREMENTS:
 A. THRUST DESIGN FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE SPECIAL DESIGN.
 B. BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS PLAN.
 C. REINFORCING STEEL BARS TO BE EPOXY COATED AT LEAST 15 MILS THICK. MINIMUM STRESS YIELD STRENGTH OF THE DOWN BARS IS 70,000 PSI.
 D. LOCKING RESTRAINT DEVICES MAY BE USED IN CONJUNCTION WITH CONCRETE THRUST BLOCKING (AT OPTION OF ENGINEER).
 E. RESTRAINT SIZING IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 2,000 PSI. AND A TEST PRESSURE OF 200 PSI. AND A MINIMUM SOIL BEARING STRESS OF 2,000 PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI OR SOILS WITH LESS THAN 2,000 POUND PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI ON SOILS WITH LESS THAN 2,000 POUND PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI ON SOILS WITH LESS THAN 2,000 POUND PSI AND A TEST PRESSURE OF 2,000 POUND PSI ON SOILS WITH LESS THAN 2,000 POUND PSI ON

#4 EPOXY COATED REBAR WITH 12" MIN.-

STAINLESS STEEL TIE DOWN (TYP.)

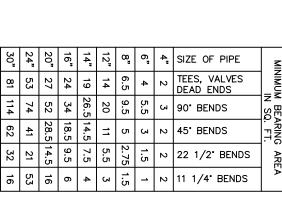
UNDISTURBED SOIL

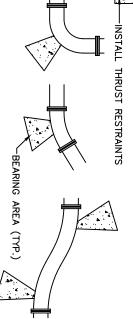
DIAMETER - INCH VERTICAL BEND DEGREES

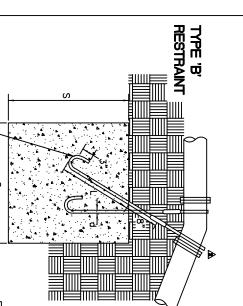
NO. OF CU FT. OF CONC. BLOCKING

SIDE OF CUBE FEET

THE AREA OF BEARING PER
THRUST BLOCK TO EQUAL 1/2 A
THE AREA SPECIFIED FOR THE
LARGEST PIPE OR FITTING SIZE







20, 6, ထ္န oş

12,

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TYPE 'B' RESTRAINT FOR 45' VERTICAL BENDS

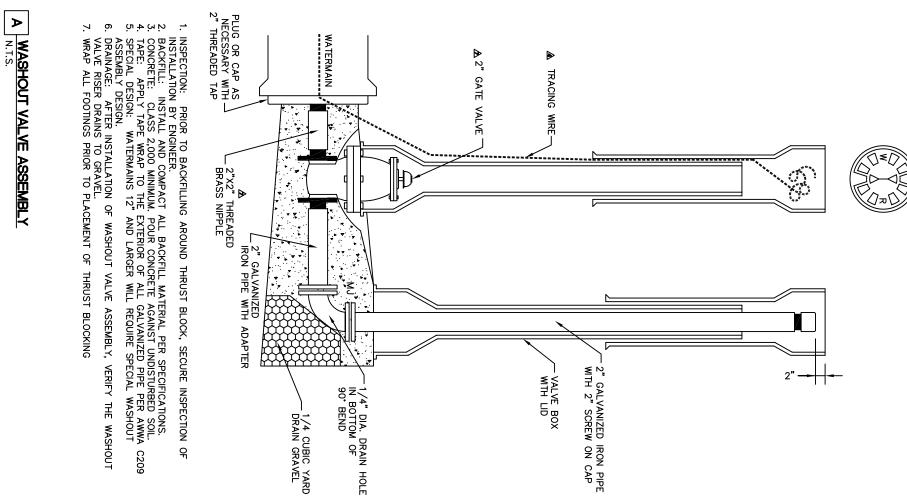
TER OF SHACK BAR RODS-INCH	۵	S
OF RODS NCRETE FT.	L	
SIZE NOMIN. TER — INCH		
CAL BEND EES	₩	IABLE
F CU C.Y. OF BLOCKING		ç
OF CUBE	S	DIMENSIONS
TER OF SHACK BAR RODS-INCH	۵	ONS
OF RODS NCRETE FT.	_	

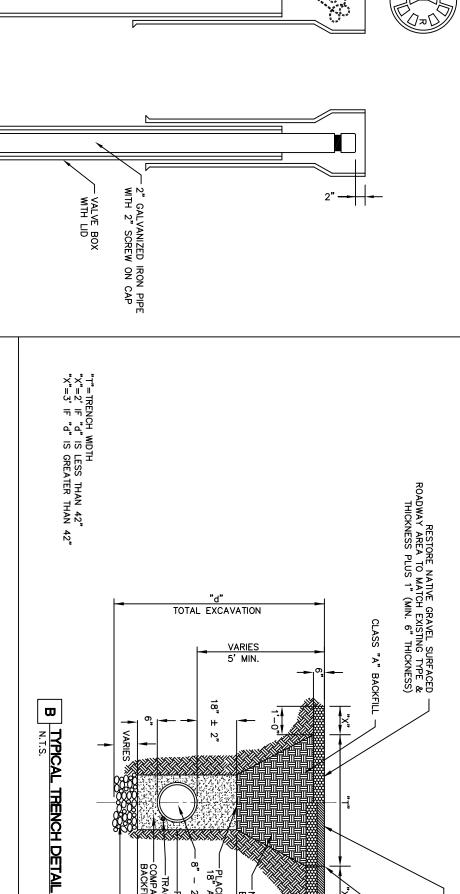
_	<u>.</u>	_	1"	-,"	_*	\sim	7/8"	3/4"	3/4"	5/8"	5/8"		5/8"			DIAMETER OF SHACK OR REBAR RODS-INCH	۵	
4.0	4.0	4.0	4.0	4.0	3.5	4.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	DEPTH OF RODS IN CONCRETE FT.	_	
	30,	24,		20"		ā	16,8	12"		ထ္		6,		4"		PIPE SIZE NOMIN. DIAMETER — INCH		
[;	45.	į	A.	ţ	ņ	40		ŧ	ž.	ŧ	, ,	ŧ	45.		•=•	VERTICAL BEND DEGREES	€	
	58.26	9	77 83	20.02	ว ก ภ	17.24	1701	9.04	0 04	رو.ن	7 07	7:3	2.37		,	NO. OF CU C.Y. OF CONC. BLOCKING		
	11.63	3.0	10 07		ю О	/./	J	0.23		ر د	7 75	;	<u>.</u>	3.0		SIDE OF CUBE FEET	S	
3/4	\sim	3/4"	\sim	\sim	3/4"	\sim	3/4"	\sim	5/8"		5/8"		5/8"			DIAMETER OF SHACK OR REBAR RODS-INCH	۵	
4.0		4.0				<u> </u>	2.0		2.5		2.0		DEPTH OF RODS IN CONCRETE FT.	٦				

_	_	k
UNDISTURBED SOIL	s	
_	כ	
N.T.S.	THE DOWN THRUST RESTRAINTS	

STAINLESS STEEL TIE DOWN (TYP.)

O DIRECT BEARING THRUST BLOCK/TIE DOWN RESTRAINTS N.T.S.





-8" - 24" PIPES

PLACE MAGNETIC MARKER TAPE 18" ABOVE ALL WATERLINES.

-NATIVE BACKFIL

OR IMPORT LL MATERIAL 2" MINUS. $^{\sim}_{
m c}$ 8" MIN. UNTREATED BASE COURSE, 3/4" OR 1" MAX., OR FLOWABLE FILL.

SLOPE MAY VARY WITH SOIL CONDITIONS. 2:1 MINIMUM, UNLESS SHORES OR TRENCH SUPPORT IS UTILIZED. CONFORM TO O.S.H.A. REQUIREMENTS. -RESTORE IMPACTED PAVEMENT.
MATCH EXISTING PAVEMENT PLUS 1"
(MIN. 4" THICKNESS)

-INITIAL SAWCUT (TYP) 🕭

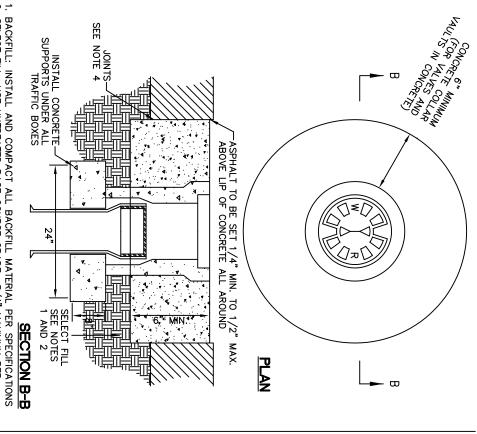
- CUT NEAT LINE IN EXISTING ASPHALT & PRIME.

-SECONDARY SAWCUT (TYP) ⚠

PIPE SPRINGLINE
TRACING WIRE A
COMPACTED NATIVE OR IMPORT
BACKFILL MATERIAL SAND

VARIES

FOUNDATION STABILIZATION SEWER ROCK OR EQUIVALENT WHEN DIRECTED



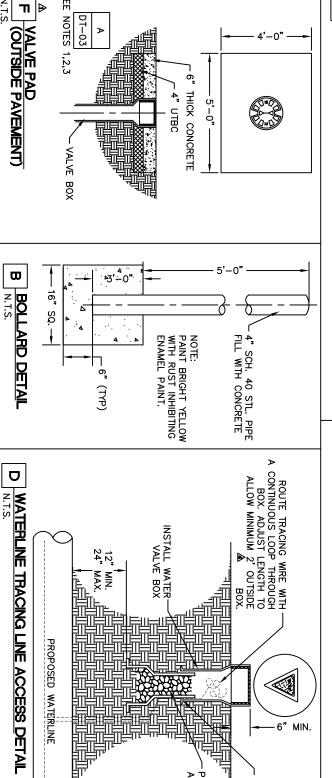
- 1. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS
 2. SELECT FILL: USE UNTREATED BASE COURSE GRADE 3/4" MAXIMUM PER SPECIFICATIONS. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
 3. CONCRETE: OF ACCURACY ACCURACY.
- 3. CONCRETE: CLASS 4,000. APPLY A SEALING/CURING COMPOUND PER SPECIFICATIONS.
 4. JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE SURFACES. PROVIDE CONCENTRIC CIRCLE CUT. CLEAN EDGES OF ALL DIRT, OIL AND LOOSE DEBRIS.

COVER COLLAR (IN PAVEMENT) A N.T.S.

O

COMBINATION AIR VACUUM VALVE ASSEMBLY

6" MIN.



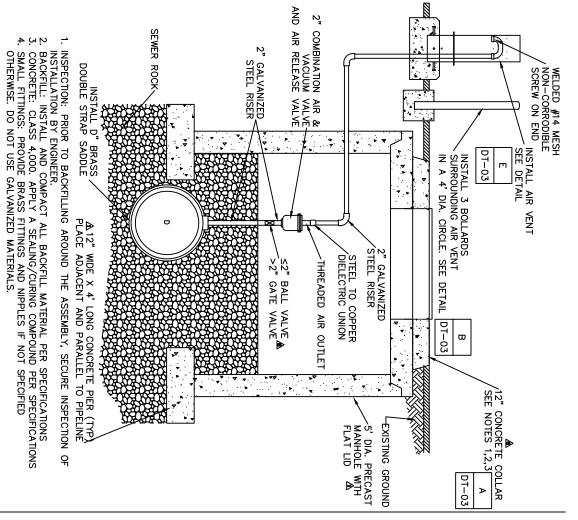
PLACE 1/2" MAX PEA GRAVEL AND LOOSELY COMPACT.

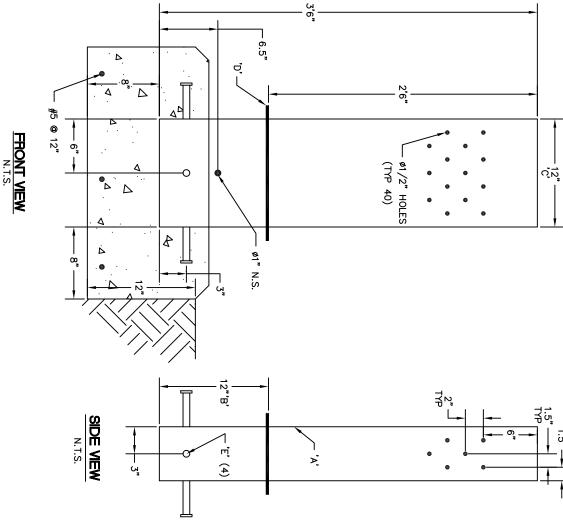
TRACING WIRE ▲

E AIR VENT DETAIL
N.T.S.

FEED TRACING WIRE THROUGH VALVE BOX SLIP JOINT

SEE NOTES 1,2,3







- OPEN TO AIR-PLACE A NO. 14
 MESH NON-CORRODIBLE SCREEN
 OVER THE OPEN END OF P.V.C.
 PIPE. ATTACH W/S.S. HOSE CLAMP.
 PHOT DIPPED GALVANIZED STEEL
 STAND PIPE FOR AIR VENT.

4" TYP L

2.5

-1'-3"·

0

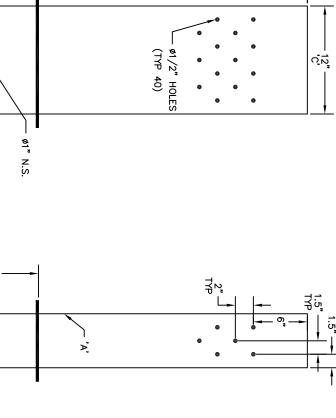
ø5/8". HOLE

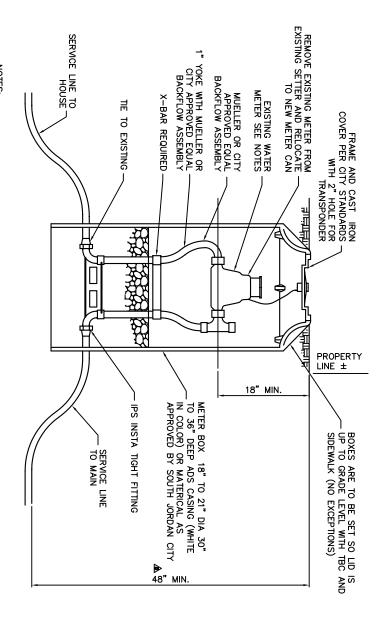
3.5

Ņ Ь

1 ½" MIN. CHAMFER ALL AROUND CONCRETE BASE.

FLANGE DETAIL
ITEMS REMOVED FOR CLARITY, N.T.S.





- NOTES: INSPECTION: PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
- 'n BACKFILLING: INSTALL ALL BACKFILL MATERIAL PER APWA SECTION 02320 IN LIFTS NOT EXCEEDING 6 INCHES AFTER COMPACTION. COMPACT EACH LIFT TO A MINUMUM RELATIVE DENSITY OF 95 PERCENT.
- ы PLACEMENT:

 A. DO NOT INSTALL METERS UNDER DRIVEWAY APPROACHES, SIDEWALKS, OR CURB AND GUTTER.

 B. IN NEW CONSTRUCTION, INSTALL METER AT CENTER OF LOT OF PER SOUTH JORDAN CITY
 REQUIREMENTS.
 C. ALL METERS ARE TO BE INSTALLED IN THE PARK STRIP OR WITHIN 4 FEET OF THE PROPERTY LINE (STREET SIDE).
- METER ISSUES:

 A. PROTECT REMOTE READ METER ASSEMBLY INCLUDING TRANSDUCER AND CONNECTING WIRE.

 B. COORDINATE METER ASSEMBLY REMOVAL AND REPLACEMENT IN NEW YOKE WITH CITY WATER

 DEPARTMENT STAFF.

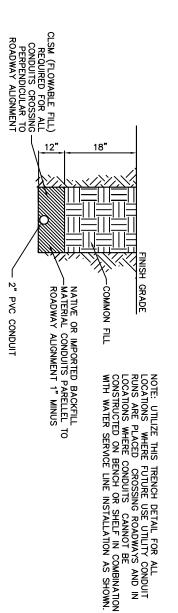
 C. COMPLETE METER RELOCATION WITHIN 4 HOUR SERVICE DISRUPTION WINDOW.

 D. REPARR / REPLACE METER, TRANSDUCER AND/OR WIRING ON REMOTE METER READ ASSEMBLY AT

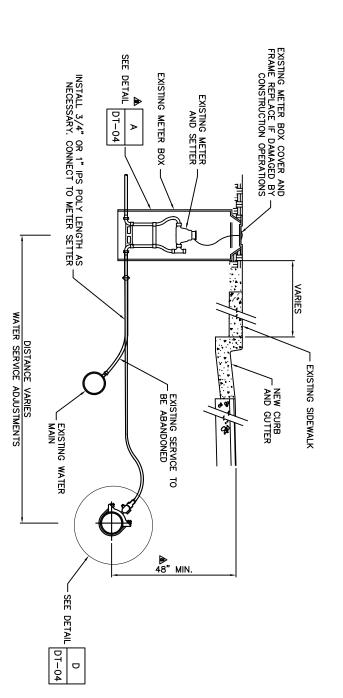
 NO COST TO CITY, AND TO CITY WATER DEPARTMENT SATISFACTION, IF DAMAGED DURING

 CONSTRUCTION.

⋗ 17 METER SERVICE N.T.S.



2" FUTURE USE UTILITY CONDUIT TYPICAL TRENCHING DETAIL N.T.S.



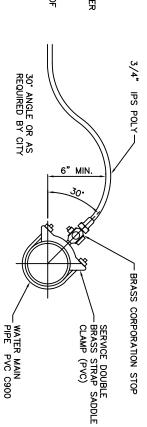
B TYPICAL CULINARY WATER SERVICE CONNECTION

NOTE: FITTINGS — PROVIDE BRASS FITTINGS AND NIPPLES ON ALL SERVICE LINE CONNECTIONS. DO NOT USE GALVANIZED MATERIALS

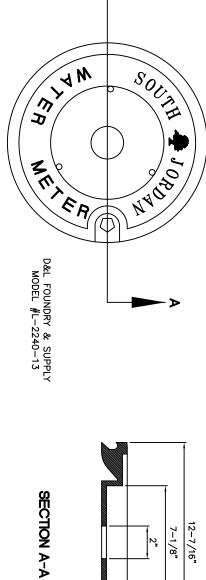
- NOTES:

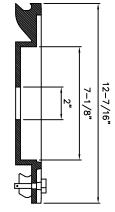
 1. INSPECTION PRIOR TO BACKFILLING AROUND TAPS, SECURE INSPECTION OF INSTALLATION BY SOUTH JORDAN WATER DEPARTMENT
- ы Ь $\ensuremath{\mathsf{BACKFILL}}$ – INSTALL AND COMPACT ALL BACKFILL MATERIAL PER APWA SECTION 02320
- 4. TAPPING — PLACE TAPS A MINIMUM OF 24" APART. USE A TAPPING TOOL WHICH IS SIZED CORRESPONDING TO THE SIZE OF THE SERVICE LINE TO BE INSTALLED. NO TAPS WITHIN 24" OF END OF ANY PIPE.

TAPE - TEFLON TAPE IS REQUIRED ON ALL TAPS









E WATER METER COVER